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Attorney Docket No.: 15966-654 CIP (Cura-154 CIP)

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS : Alsobrook et al.

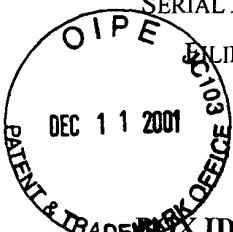
SERIAL NUMBER : 09/974,591

EXAMINER : Not Yet Assigned

FILING DATE : October 9, 2001

ART UNIT : Not Yet Assigned

FOR : Novel Single Nucleotide Polymorphisms for Olfactory Receptor-Like Polypeptides and Nucleic Acids Encoding the Same



Assistant Commissioner for Patents
Washington, D.C. 20231



30623

PATENT TRADEMARK OFFICE

TRANSMITTAL LETTER

Transmitted herewith for filing in the present application are the following documents:

1. Information Disclosure Statement (2 pages), in duplicate;
2. Modified Form 1449/PTO (3 pages), in duplicate;
3. Copies of cited references B1, and C1-C37; and
4. Return Postcard.

If the enclosed papers are considered incomplete, the Mail Room and/or the Application Branch is respectfully requested to contact the undersigned at (617) 542-6000, Boston, Massachusetts.

The Commissioner is authorized to charge any additional fees that may be due, or to credit any overpayment, to the undersigned's account, Deposit Account No. 50-0311 Ref. No. 15966-654 CIP (Cura-154 CIP). A duplicate copy of this transmittal letter is enclosed herewith.

Respectfully submitted,

Ivor R. Elrifi, Reg. No. 39,529

Christina V. Karnakis, Reg. No. 45,899

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Dated: November 13, 2001

TRA 1592749v1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: Alsobrook et al.

SERIAL NUMBER: 09/974,591

EXAMINER: Not Yet Assigned

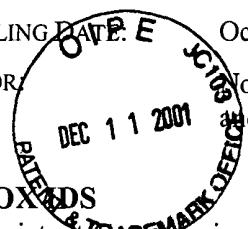
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BOXADS

Assistant Commissioner for Patents
Washington, D.C. 20231



INFORMATION DISCLOSURE STATEMENT

Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, Applicants hereby make of record the documents listed on the attached modified Form PTO-1449, as well as copies of the listed documents.

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits in the above-identified case. Accordingly, no fee or certification is believed required.

It is respectfully requested that the Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims, and signs the enclosed form PTO-1449 to evidence that the cited information has been fully considered by the Patent and Trademark Office during the examination of this application.

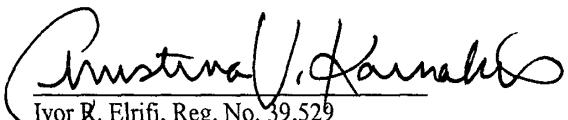
By submitting this Information Disclosure Statement, the Applicants make no representation that: (1) a search has been performed, of the extent of any search performed, or that more relevant information does not exist; (2) the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b); and (3) the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. §102.

APPLICANTS: Alsobrook et al.
U.S.S.N.: 09/974,591

Notwithstanding any statements by the Applicants, the Examiner is urged to form his/her own conclusion regarding the relevance of the cited information. An early and favorable action is hereby requested.

Please charge any additional fees that may be due, or credit any overpayment of same, to Deposit Account No. 50-0311, Reference No. 15966-654 CIP (Cura-154 CIP).

Respectfully submitted,



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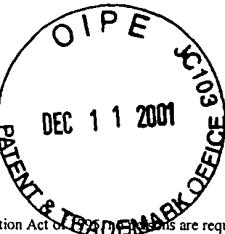
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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE



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|------------------------|--|------------------------|------------------------------|
| Modified Form 1449/PTO | | Application Number | 09/974,591 |
| | | Filing Date | 10/9/01 |
| | | First Named Inventor | Alsobrook |
| | | Group Art Unit | Not Yet Assigned |
| | | Examiner Name | Not yet assigned |
| | | Attorney Docket Number | 15966-654 CIP (Cura-154 CIP) |

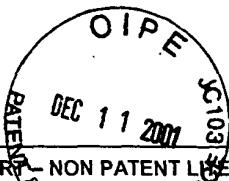
| U.S. PATENT DOCUMENTS | | | | | | | |
|-----------------------|----------|--------------------------|------------|-------------------------------------|-------|-----------|----------------------------|
| Exam Initials | Cite No. | U.S. Patent Document No. | Issue Date | Name of Patentee(s) or Applicant(s) | Class | Sub Class | Filing Date If Appropriate |
| A1 | | | | | | | |

| FOREIGN PATENT DOCUMENTS | | | | | |
|--------------------------|----------|---------------------------------------|-------------------------------------|---------------------|--------------------|
| Exam Initials | Cite No. | Foreign Patent Document Office Number | Name of Patentee(s) or Applicant(s) | Date of Publication | Translation Yes No |
| B1 | EP | 0 867 508 A3 | Smithkline Beecham Corporation | 09/05/01 | |

| OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS | | |
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| Exam Initials | Cite No. | Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc. |
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| | C2 | Bird, C. 2000 Direct Submission. GenBank Accession Number: AL049734 |
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| | C11 | Hoppe, et al., 2000 "Sequence analyses of the olfactory receptor gene cluster mOR37 on mouse chromosome 4." <i>Genomics</i> 66 (3), 284-295. GenBank Accession Number: AJ251155 |
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| | C13 | Lane, et al., 2000 "Genomic Analysis of Orthologous Mouse and Human Olfactory Receptor Loci Indicates Cluster Stability Yet Minimal Conservation Beyond the Coding Sequence." Direct Submission. GenBank Accession Number: AAG45201 |



| OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS | | |
|---|----------|--|
| Exam Initials | Cite No. | Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc. |
| | C14 | Lane, et al., 2000 "Genomic Analysis of Orthologous Mouse and Human Olfactory Receptor Loci Indicates Cluster Stability Yet Minimal Conservation Beyond the Coding Sequence." Direct Submission. GenBank Accession Number: AAG45204 |
| | C15 | Lane, et al., 2000 "Genomic Analysis of Orthologous Mouse and Human Olfactory Receptor Loci Indicates Cluster Stability Yet Minimal Conservation Beyond the Coding Sequence." Direct Submission. GenBank Accession Number: AF321237 |
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| | C20 | Menini, A. (1999). "Calcium signalling and regulation in olfactory neurons." <i>Curr Opin Neurobiol</i> 9(4): 419-26. |
| | C21 | Nakamura, T. (2000). "Cellular and molecular constituents of olfactory sensation in vertebrates." <i>Comp Biochem Physiol A Mol Integr Physiol</i> 126(1): 17-32. |
| | C22 | Pilpel, Y., A. Sosinsky, et al. (1998). "Molecular biology of olfactory receptors." <i>Essays Biochem</i> 33: 93-104. |
| | C23 | Raming, 1993 "Cloning and expression of odorant receptors." <i>Nature</i> 361 (6410), 353-356. GenBank Accession Number: S29711 |
| | C24 | Rouquier, 2000 "The olfactory receptor gene repertoire in primates and mouse: evidence for reduction of the functional fraction in primates." <i>Proc. Natl. Acad. Sci. U.S.A.</i> 97 (6), 2870-2874. GenBank Accession Number: AAF40368 |
| | C25 | Rouquier, et al., 1998 "Distribution of olfactory receptor genes in the human genome." <i>Nature Genet.</i> 18 (3), 243-250. GenBank Accession Number: AAC39611 |
| | C26 | Schurmans, S., F. Muscatelli, et al. (1993). "The OLFR1 gene encoding the HGMP07E putative olfactory receptor maps to the 17p13-->p12 region of the human genome and reveals an Mspl restriction fragment length polymorphism." <i>Cytogenet Cell Genet</i> 63(3): 200-4. |
| | C27 | Smith, S. 1999 Direct Submission. GenBank Accession Number: CAB42853 |
| | C28 | Strotmann, et al., 1992 "Expression of odorant receptors in spatially restricted subsets of chemosensory neurons." <i>Neuroreport</i> 3 (12), 1053-1056. GenBank Accession Number: AAB25299 |
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| | C30 | Strotmann, et al., 1999 "Small subfamily of olfactory receptor genes: structural features, expression pattern and genomic organization." <i>Gene</i> 236 (2), 281-291. GenBank Accession Number: CAB55597 |
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| | C33 | Whitaker, H. 2000 "Human DNA sequence from clone 994E9 on chromosome 6p21.31-22.2 Contains an RPS17 (40S Ribosomal Protein S17) pseudogene, the gene for MAS-related G protein-coupled receptor MRG, a pseudogene similar to MAS proto-oncogene, a diubiquitin pseudogene, four novel 7 transmembrane receptor (rhodopsin family) (olfactory receptor like) protein genes and one pseudogene. Contains ESTs and GSSs. GenBank Accession Number: NP_039225 |
| | C34 | Corby, N. (1999). Direct Submission, EMBL Database Accession No.: AL133410 . |
| | C35 | Strotmann, J. et al. (1999). <i>Gene</i> 236: 281-291. |
| | C36 | Strotmann, J. et al. (1999). <i>Gene</i> 236: 181-191. EMBL Database Accession No.: Q9QZ18 . |



OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

| Exam Initials | Cite No. | Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc. |
|---------------|----------|--|
| | C37 | Partial International Search Report, issued September 18, 2001. |

* a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. _____, filed _____, and relied upon for an earlier filing date under 35 U.S.C. §120 (continuation, continuation-in-part, and divisional applications).

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| Examiner Signature | | Date Considered |
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered.

Include copy of this form with next communication to applicant.

TRA 1592738v1